

TABLE OF CONTENTS

Table of Contents.....	i
List of Figures.....	xxiii
List of Tables.....	xxv
Acronyms and Abbreviations.....	xxix
Measurements and Conversions.....	xxxiii

1.0	INTRODUCTION AND PURPOSE AND NEED FOR AGENCY ACTION.....	1-1
1.1	Background Information.....	1-4
1.1.1	Historical Perspective of the Development of LANL and the LANL Area...	1-4
1.1.2	Current LANL Setting and Land Uses, DOE Conveyance and Transfer Policies, and Authorizing Legislations.....	1-6
1.1.3	Public Law 105-119.....	1-8
1.1.4	Actions Associated with Public Law 105-119.....	1-10
1.1.4.1	Land Transfer Report.....	1-10
1.1.4.2	Title Report.....	1-13
1.1.4.3	Environmental Restoration Report.....	1-13
1.1.4.4	CT EIS.....	1-14
1.1.4.5	Combined Data Report.....	1-14
1.1.4.6	Agreement on Allocation of Parcels.....	1-14
1.1.4.7	Conveyance and Transfer Plan.....	1-14
1.1.4.8	Conveyance or Transfer of Land.....	1-14
1.1.4.9	Environmental Compliance Actions Required Prior to Conveyance or Transfer.....	1-15
1.2	Purpose and Need for Agency Action.....	1-15
1.3	DOE Decisions to be Supported by the CT EIS.....	1-16
1.4	Overview of the Alternatives Considered.....	1-18
1.4.1	No Action Alternative.....	1-19
1.4.2	Convey and Transfer of Each Tract Alternative.....	1-19
1.4.3	Preferred Alternative.....	1-19
1.5	Relationship to Other DOE NEPA Documents and Proposed Actions.....	1-21
1.5.1	1999 LANL Site-Wide Environmental Impact Statement.....	1-21
1.5.1.1	NEPA Analysis.....	1-21
1.5.1.2	Relationship to Conveyance and Transfer Action.....	1-21
1.5.2	DP Road Tract Environmental Assessment Analysis.....	1-22
1.5.2.1	Relationship to Conveyance and Transfer Action.....	1-22
1.5.3	Research Park Environmental Assessment.....	1-22
1.5.3.1	Relationship to Conveyance and Transfer Action.....	1-23
1.5.4	Electric Power Systems Upgrade Project Environmental Assessment.....	1-23
1.5.4.1	Relationship to Conveyance and Transfer Action.....	1-23
1.5.5	Strategic Computing Complex Environmental Assessment.....	1-24
1.5.5.1	Relationship to Conveyance and Transfer Action.....	1-24
1.5.6	Nonproliferation International Security Center Environmental Assessment.....	1-24

TABLE OF CONTENTS

	1.5.6.1 Relationship to Conveyance and Transfer Action.....	1-24
1.6	Overview of the Conveyance and Transfer Environmental Impact Statement.....	1-25
1.6.1	Environmental Impact Statement Approaches	1-25
1.6.2	Role of Cooperating Agencies	1-26
1.6.3	Organization of the CT EIS	1-26
1.6.4	Scoping Process and Comments Received	1-27
1.6.5	Specific Comment Summaries	1-28
	1.6.5.1 Cultural Resources (01).....	1-28
	1.6.5.2 Natural Resources, Wildlife, and Threatened and Endangered Species (02).....	1-28
	1.6.5.3 Cumulative Impacts (03)	1-28
	1.6.5.4 Environmental Justice (04).....	1-29
	1.6.5.5 Historic Trails, Recreation, and Public Access to National Forest Lands (05)	1-29
	1.6.5.6 Fire Hazard (06).....	1-29
	1.6.5.7 Cooperating Agency Status (07).....	1-29
	1.6.5.8 Environmental Restoration (08).....	1-29
	1.6.5.9 Alternatives (09).....	1-30
	1.6.5.10 Restrictions or Easements (10)	1-30
	1.6.5.11 Future Uses (11).....	1-31
	1.6.5.12 Partial Conveyance or Transfer (12)	1-31
	1.6.5.13 Homesteaders (13).....	1-31
	1.6.5.14 Environmental Monitoring (14)	1-31
	1.6.5.15 Water Rights and Utility Corridors (15).....	1-31
1.6.6	Draft EIS Comment Process and Comments Received.....	1-31
1.6.7	Specific Comment Summaries and DOE Responses.....	1-33
	1.6.7.1 General Issue 1: Purpose and Need.....	1-33
	1.6.7.2 General Issue 2: Deed Restrictions	1-34
	1.6.7.3 General Issue 3: Basis for DOE’s Decisions	1-36
	1.6.7.4 General Issue 4: Public Law Process and the CT EIS.....	1-37
	1.6.7.5 General Issue 5: Environmental Restoration Process.....	1-39
	1.6.7.6 General Issue 6: Environmental Justice.....	1-40
	1.6.7.7 General Issue 7: Homesteaders Association Claims	1-42
<hr style="border: 1px solid black;"/>		
2.0	ALTERNATIVES CONSIDERED IN THE CT EIS.....	2-1
2.1	No Action Alternative.....	2-1
2.2	Proposed Action Alternative	2-2
2.3	Preferred Alternative.....	2-4
2.4	Alternatives Considered But Eliminated from Detailed Analysis.....	2-6
	2.4.1 Conveyance or Transfer to Parties Other than Those Identified by the Act.....	2-7
	2.4.2 Conveyance or Transfer to Other Federal Agencies.....	2-7
	2.4.3 Conveyance or Transfer Except for Tracts with Sensitive Resources	2-8

TABLE OF CONTENTS

2.4.4	Conveyance or Transfer of Tracts with Cultural and Natural Resources to Other Federal Agencies.....	2-9
2.4.5	DOE Retention of Areas with Conflicting Land Uses.....	2-9
2.4.6	Convey or Transfer Two Parcels Not in Land Transfer Report.....	2-9
2.4.7	Deletion of Two Tracts from CT EIS Scope.....	2-9
2.4.8	Reinitiate Assistance Payments Without Conveyance or Transfer	2-10
2.5	Comparison of Environmental Consequences of the No Action Alternative and the Proposed Action Alternative	2-10
2.5.1	Environmental Impacts	2-10
2.5.1.1	Analysis of Impacts	2-10
2.5.1.2	Comparison of Direct Impacts	2-11
2.5.1.3	Comparison of Indirect Impacts.....	2-12
2.5.2	Mitigation Measures	2-16
2.5.2.1	Mitigations Prior to Conveyance or Transfer	2-16
2.5.2.2	Recommended Mitigations	2-17
2.5.2.3	Potential Resource-Specific Mitigations	2-17
<hr style="border: 1px solid black;"/>		
3.0	OVERVIEW OF THE AFFECTED ENVIRONMENT.....	3-1
3.1	Introduction	3-1
3.2	Regional and Local Setting	3-1
3.2.1	Land Use	3-1
3.2.1.1	Environmental Restoration	3-5
3.2.2	Transportation.....	3-7
3.2.3	Infrastructure	3-8
3.2.3.1	LANL and Los Alamos County Water Rights.....	3-8
3.2.4	Noise	3-10
3.2.4.1	Existing Noise Levels.....	3-11
3.2.5	Visual Resources	3-12
3.2.5.1	Physical Characteristics of the Visual Environment	3-12
3.2.6	Socioeconomics.....	3-13
3.2.6.1	Los Alamos County Self-Sufficiency.....	3-13
3.2.6.2	Employment and Income	3-13
3.2.6.3	Population and Housing.....	3-14
3.2.6.4	Community Services	3-15
3.2.7	Ecological Resources.....	3-16
3.2.8	Cultural Resources.....	3-27
3.2.8.1	Culture History	3-27
3.2.8.2	Cultural Resource Types.....	3-28
3.2.8.3	National Register of Historic Places Eligibility	3-29
3.2.8.4	Religious Resources	3-30
3.2.8.5	Identification of Cultural Resources.....	3-30
3.2.9	Geology and Soils.....	3-32
3.2.9.1	Geology.....	3-32
3.2.9.2	Geologic Conditions	3-32
3.2.9.3	Soils	3-35

TABLE OF CONTENTS

3.2.9.4	Mineral Resources	3-36
3.2.9.5	Paleontological Resources	3-36
3.2.10	Water Resources	3-36
3.2.10.1	Surface Water Hydrology	3-36
3.2.10.2	Groundwater Hydrology	3-37
3.2.11	Air Resources	3-38
3.2.11.1	Climate	3-39
3.2.11.2	Criteria Pollutants	3-39
3.2.11.3	Hazardous Air Pollutants	3-39
3.2.11.4	Radioactive Air Pollutants	3-40
3.2.11.5	Global Climate Change	3-40
3.2.12	Human Health	3-41
3.2.12.1	The Radiological Environment in the LANL Vicinity	3-41
3.2.12.2	The Nonradiological Environment in the LANL Vicinity	3-42
3.2.12.3	Cancer Incidence and Mortality in the Los Alamos Region	3-43
3.2.12.4	Facility Accidents	3-43
3.2.13	Environmental Justice	3-44
3.3	General Setting of the Land Tracts	3-44

4.0	ENVIRONMENTAL IMPACT ASSESSMENT METHODOLOGIES AND ASSUMPTIONS	4-1
4.1	General Evaluation Process and Issues	4-1
4.1.1	Format Considerations	4-1
4.1.2	Direct Versus Indirect Impacts	4-1
4.1.3	Timeframe of Analyses	4-2
4.1.4	Global Development Assumptions	4-2
4.2	Environmental Impact Methodologies	4-3
4.2.1	Land Use	4-3
4.2.1.1	Environmental Restoration	4-6
4.2.2	Transportation	4-7
4.2.3	Infrastructure	4-8
4.2.4	Noise	4-8
4.2.5	Visual Resources	4-8
4.2.6	Socioeconomics	4-9
4.2.7	Ecological Resources	4-9
4.2.8	Cultural Resources	4-10
4.2.9	Geology and Soils	4-11
4.2.10	Water Resources	4-12
4.2.11	Air Resources	4-12
4.2.11.1	Global Climate Change	4-13
4.2.12	Human Health	4-13
4.2.12.1	General Considerations and Assumptions	4-13
4.2.12.2	LANL Operations	4-13
4.2.12.3	Facility Accidents	4-15
4.2.13	Environmental Justice	4-19

TABLE OF CONTENTS

5.0	RENDIJA CANYON TRACT	5-1
5.1	Affected Environment.....	5-1
5.1.1	Land Use	5-1
5.1.1.1	Environmental Restoration	5-3
5.1.2	Transportation.....	5-3
5.1.3	Infrastructure	5-5
5.1.4	Noise	5-5
5.1.5	Visual Resources	5-5
5.1.6	Socioeconomics	5-7
5.1.7	Ecological Resources.....	5-7
5.1.8	Cultural Resources.....	5-8
5.1.9	Geology and Soils.....	5-8
5.1.10	Water Resources.....	5-8
5.1.11	Air Resources	5-9
5.1.11.1	Global Climate Change.....	5-9
5.1.12	Human Health.....	5-9
5.1.12.1	The Radiological Environment for the Rendija Canyon Tract....	5-9
5.1.12.2	The Nonradiological Environment for the Rendija Canyon Tract.....	5-9
5.1.12.3	Facility Accidents.....	5-10
5.1.13	Environmental Justice.....	5-11
5.2	No Action Alternative.....	5-11
5.2.1	Land Use	5-11
5.2.1.1	Environmental Restoration	5-12
5.2.2	Transportation.....	5-12
5.2.3	Infrastructure	5-12
5.2.4	Noise	5-12
5.2.5	Visual Resources	5-13
5.2.6	Socioeconomics	5-13
5.2.7	Ecological Resources.....	5-13
5.2.8	Cultural Resources.....	5-13
5.2.9	Geology and Soils.....	5-13
5.2.10	Water Resources.....	5-13
5.2.11	Air Resources	5-13
5.2.11.1	Global Climate Change.....	5-14
5.2.12	Human Health.....	5-14
5.2.12.1	Chemical Accidents.....	5-14
5.2.12.2	Radiological Accidents.....	5-14
5.2.12.3	Natural Event Accidents.....	5-14
5.2.13	Environmental Justice.....	5-14
5.3	Proposed Action Alternative	5-15
5.3.1	Land Use	5-15
5.3.1.1	Description of Contemplated Uses.....	5-15
5.3.1.2	Environmental Consequences of the Contemplated Uses	5-16

TABLE OF CONTENTS

5.3.1.3	Environmental Restoration	5-18
5.3.2	Transportation.....	5-18
5.3.2.1	Environmental Consequences of the Contemplated Uses	5-18
5.3.3	Infrastructure	5-19
5.3.3.1	Environmental Consequences of the Contemplated Uses	5-19
5.3.4	Noise	5-20
5.3.4.1	Environmental Consequences of the Contemplated Uses	5-20
5.3.5	Visual Resources	5-21
5.3.5.1	Environmental Consequences of the Contemplated Uses	5-21
5.3.6	Socioeconomics.....	5-21
5.3.6.1	Environmental Consequences of the Contemplated Uses	5-21
5.3.7	Ecological Resources.....	5-21
5.3.7.1	Environmental Consequences of the Contemplated Uses	5-22
5.3.8	Cultural Resources.....	5-24
5.3.8.1	Environmental Consequences of the Contemplated Uses	5-24
5.3.9	Geology and Soils.....	5-25
5.3.9.1	Environmental Consequences of the Contemplated Uses	5-25
5.3.10	Water Resources.....	5-25
5.3.10.1	Environmental Consequences of the Contemplated Uses	5-25
5.3.11	Air Resources	5-26
5.3.11.1	Environmental Consequences of the Contemplated Uses	5-26
5.3.11.2	Global Climate Change.....	5-26
5.3.12	Human Health.....	5-26
5.3.12.1	Environmental Consequences of the Contemplated Uses	5-26
5.3.12.2	Chemical Accidents.....	5-27
5.3.12.3	Radiological Accidents.....	5-27
5.3.12.4	Natural Event Accidents.....	5-27
5.3.13	Environmental Justice.....	5-29
5.3.14	Irreversible and Irretrievable Commitment of Resources.....	5-29
5.3.15	Unavoidable Adverse Environmental Impacts.....	5-30
5.3.16	Relationship Between Local Short-Term Use of the Environment and Maintenance of Long-Term Productivity	5-31

6.0	DOE LOS ALAMOS AREA OFFICE TRACT.....	6-1
6.1	Affected Environment.....	6-1
6.1.1	Land Use	6-1
6.1.1.1	Environmental Restoration	6-1
6.1.2	Transportation.....	6-4
6.1.3	Infrastructure	6-4
6.1.4	Noise	6-4
6.1.5	Visual Resources	6-4
6.1.6	Socioeconomics.....	6-7
6.1.7	Ecological Resources.....	6-7
6.1.8	Cultural Resources.....	6-7
6.1.9	Geology and Soils.....	6-8

TABLE OF CONTENTS

6.1.10	Water Resources	6-8
6.1.11	Air Resources	6-8
	6.1.11.1 Global Climate Change.....	6-8
6.1.12	Human Health.....	6-9
	6.1.12.1 The Radiological Environment for the DOE LAAO Tract	6-9
	6.1.12.2 The Nonradiological Environment for the DOE LAAO Tract	6-9
	6.1.12.3 Facility Accidents.....	6-9
6.1.13	Environmental Justice.....	6-11
6.2	No Action Alternative.....	6-12
6.2.1	Land Use	6-12
	6.2.1.1 Environmental Restoration	6-12
6.2.2	Transportation.....	6-13
6.2.3	Infrastructure	6-13
6.2.4	Noise	6-13
6.2.5	Visual Resources	6-14
6.2.6	Socioeconomics.....	6-14
6.2.7	Ecological Resources.....	6-14
6.2.8	Cultural Resources.....	6-14
6.2.9	Geology and Soils.....	6-14
6.2.10	Water Resources.....	6-14
6.2.11	Air Resources	6-14
	6.2.11.1 Global Climate Change.....	6-15
6.2.12	Human Health.....	6-15
	6.2.12.1 Chemical Accidents.....	6-15
	6.2.12.2 Radiological Accidents.....	6-15
	6.2.12.3 Natural Event Accidents.....	6-15
6.2.13	Environmental Justice.....	6-16
6.3	Proposed Action Alternative	6-16
6.3.1	Land Use	6-16
	6.3.1.1 Description of Contemplated Uses.....	6-16
	6.3.1.2 Environmental Consequences of the Contemplated Uses	6-17
	6.3.1.3 Environmental Restoration	6-17
6.3.2	Transportation.....	6-19
	6.3.2.1 Environmental Consequences of the Contemplated Uses	6-19
6.3.3	Infrastructure	6-20
	6.3.3.1 Environmental Consequences of the Contemplated Uses	6-20
6.3.4	Noise	6-21
	6.3.4.1 Environmental Consequences of the Contemplated Uses	6-21
6.3.5	Visual Resources	6-21
	6.3.5.1 Environmental Consequences of the Contemplated Uses	6-21
6.3.6	Socioeconomics.....	6-22
	6.3.6.1 Environmental Consequences of the Contemplated Uses	6-22
6.3.7	Ecological Resources.....	6-22
	6.3.7.1 Environmental Consequences of the Contemplated Uses	6-22
6.3.8	Cultural Resources.....	6-23
	6.3.8.1 Environmental Consequences of the Contemplated Uses	6-24

TABLE OF CONTENTS

6.3.9	Geology and Soils.....	6-24
	6.3.9.1 Environmental Consequences of the Contemplated Uses	6-24
6.3.10	Water Resources.....	6-25
	6.3.10.1 Environmental Consequences of the Contemplated Uses	6-25
6.3.11	Air Resources	6-25
	6.3.11.1 Environmental Consequences of the Contemplated Uses	6-25
	6.3.11.2 Global Climate Change.....	6-25
6.3.12	Human Health.....	6-26
	6.3.12.1 Environmental Consequences of the Contemplated Uses	6-26
	6.3.12.2 Chemical Accidents.....	6-26
	6.3.12.3 Radiological Accidents.....	6-27
	6.3.12.4 Natural Event Accidents.....	6-27
6.3.13	Environmental Justice.....	6-29
6.3.14	Irreversible and Irretrievable Commitment of Resources.....	6-29
6.3.15	Unavoidable Adverse Environmental Impacts.....	6-29
6.3.16	Relationship Between Local Short-Term Use of the Environment and Maintenance of Long-Term Productivity	6-30
<hr style="border: 1px solid black;"/>		
7.0	MISCELLANEOUS SITE 22 TRACT.....	7-1
7.1	Affected Environment.....	7-1
	7.1.1 Land Use	7-1
	7.1.1.1 Environmental Restoration	7-1
	7.1.2 Transportation.....	7-5
	7.1.3 Infrastructure	7-5
	7.1.4 Noise	7-5
	7.1.5 Visual Resources	7-5
	7.1.6 Socioeconomics.....	7-5
	7.1.7 Ecological Resources.....	7-5
	7.1.8 Cultural Resources.....	7-7
	7.1.9 Geology and Soils.....	7-7
	7.1.10 Water Resources.....	7-7
	7.1.11 Air Resources	7-7
	7.1.11.1 Global Climate Change.....	7-8
	7.1.12 Human Health.....	7-8
	7.1.12.1 The Radiological Environment for the Miscellaneous Site 22 Tract.....	7-8
	7.1.12.2 The Nonradiological Environment for the Miscellaneous Site 22 Tract.....	7-8
	7.1.12.3 Facility Accidents.....	7-8
	7.1.13 Environmental Justice.....	7-10
7.2	No Action Alternative.....	7-10
	7.2.1 Land Use	7-10
	7.2.1.1 Environmental Restoration	7-10
	7.2.2 Transportation.....	7-10
	7.2.3 Infrastructure	7-11

TABLE OF CONTENTS

7.2.4	Noise	7-11
7.2.5	Visual Resources	7-11
7.2.6	Socioeconomics	7-11
7.2.7	Ecological Resources	7-11
7.2.8	Cultural Resources	7-11
7.2.9	Geology and Soils	7-11
7.2.10	Water Resources	7-11
7.2.11	Air Resources	7-11
	7.2.11.1 Global Climate Change	7-12
7.2.12	Human Health	7-12
	7.2.12.1 Chemical Accidents	7-12
	7.2.12.2 Radiological Accidents	7-12
	7.2.12.3 Natural Event Accidents	7-12
7.2.13	Environmental Justice	7-12
7.3	Proposed Action Alternative	7-12
7.3.1	Land Use	7-13
	7.3.1.1 Description of Contemplated Uses	7-13
	7.3.1.2 Environmental Consequences of the Contemplated Uses	7-13
	7.3.1.3 Environmental Restoration	7-13
7.3.2	Transportation	7-13
	7.3.2.1 Environmental Consequences of the Contemplated Uses	7-13
7.3.3	Infrastructure	7-13
	7.3.3.1 Environmental Consequences of the Contemplated Uses	7-13
7.3.4	Noise	7-13
	7.3.4.1 Environmental Consequences of the Contemplated Uses	7-13
7.3.5	Visual Resources	7-14
	7.3.5.1 Environmental Consequences of the Contemplated Uses	7-14
7.3.6	Socioeconomics	7-14
	7.3.6.1 Environmental Consequences of the Contemplated Uses	7-14
7.3.7	Ecological Resources	7-14
	7.3.7.1 Environmental Consequences of the Contemplated Uses	7-14
7.3.8	Cultural Resources	7-14
	7.3.8.1 Environmental Consequences of the Contemplated Uses	7-14
7.3.9	Geology and Soils	7-14
	7.3.9.1 Environmental Consequences of the Contemplated Uses	7-14
7.3.10	Water Resources	7-15
	7.3.10.1 Environmental Consequences of the Contemplated Uses	7-15
7.3.11	Air Resources	7-15
	7.3.11.1 Environmental Consequences of the Contemplated Uses	7-15
	7.3.11.2 Global Climate Change	7-15
7.3.12	Human Health	7-15
	7.3.12.1 Environmental Consequences of the Contemplated Uses	7-15
	7.3.12.2 Chemical Accidents	7-15
	7.3.12.3 Radiological Accidents	7-15
	7.3.12.4 Natural Event Accidents	7-15
7.3.13	Environmental Justice	7-16

TABLE OF CONTENTS

7.3.14	Irreversible and Irretrievable Commitment of Resources.....	7-16
7.3.15	Unavoidable Adverse Environmental Impacts.....	7-16
7.3.16	Relationship Between Local Short-Term Use of the Environment and the Maintenance of Long-Term Productivity	7-16

8.0	MISCELLANEOUS MANHATTAN MONUMENT TRACT	8-1
8.1	Affected Environment.....	8-1
8.2	No Action Alternative.....	8-1
8.3	Proposed Action Alternative	8-3
8.3.1	Irreversible And Irretrievable Commitment of Resources.....	8-3
8.3.2	Unavoidable Adverse Environmental Impacts.....	8-3
8.3.3	Relationship Between Local Short-Term Use of the Environment and the Maintenance of Long-Term Productivity	8-3

9.0	DP ROAD TRACT.....	9-1
9.1	Affected Environment.....	9-1
9.1.1	Land Use	9-1
9.1.1.1	Environmental Restoration	9-3
9.1.2	Transportation.....	9-3
9.1.3	Infrastructure	9-3
9.1.4	Noise	9-8
9.1.5	Visual Resources	9-8
9.1.6	Socioeconomics.....	9-8
9.1.7	Ecological Resources.....	9-8
9.1.8	Cultural Resources.....	9-9
9.1.9	Geology and Soils.....	9-9
9.1.10	Water Resources.....	9-9
9.1.11	Air Resources	9-10
9.1.11.1	Global Climate Change.....	9-10
9.1.12	Human Health.....	9-10
9.1.12.1	The Radiological Environment for the DP Road Tract.....	9-10
9.1.12.2	The Nonradiological Environment for the DP Road Tract.....	9-11
9.1.12.3	Facility Accidents.....	9-11
9.1.13	Environmental Justice.....	9-14
9.2	No Action Alternative.....	9-14
9.2.1	Land Use	9-14
9.2.1.1	Environmental Restoration	9-14
9.2.2	Transportation.....	9-15
9.2.3	Infrastructure	9-15
9.2.4	Noise	9-15
9.2.5	Visual Resources	9-15
9.2.6	Socioeconomics.....	9-15
9.2.7	Ecological Resources.....	9-15
9.2.8	Cultural Resources.....	9-15

TABLE OF CONTENTS

9.2.9	Geology and Soils.....	9-15
9.2.10	Water Resources.....	9-16
9.2.11	Air Resources	9-16
9.2.11.1	Global Climate Change.....	9-16
9.2.12	Human Health.....	9-16
9.2.12.1	Chemical Accidents.....	9-17
9.2.12.2	Radiological Accidents.....	9-17
9.2.12.3	Natural Event Accidents.....	9-17
9.2.13	Environmental Justice.....	9-17
9.3	Proposed Action Alternative	9-17
9.3.1	Land Use	9-17
9.3.1.1	Description of Contemplated Uses.....	9-18
9.3.1.2	Environmental Consequences of the Contemplated Uses	9-21
9.3.1.3	Environmental Restoration	9-21
9.3.2	Transportation.....	9-21
9.3.2.1	Environmental Consequences of the Contemplated Uses	9-21
9.3.3	Infrastructure	9-22
9.3.3.1	Environmental Consequences of the Contemplated Uses	9-22
9.3.4	Noise	9-23
9.3.4.1	Environmental Consequences of the Contemplated Uses	9-23
9.3.5	Visual Resources	9-24
9.3.5.1	Environmental Consequences of the Contemplated Uses	9-24
9.3.6	Socioeconomics.....	9-24
9.3.6.1	Environmental Consequences of the Contemplated Uses	9-24
9.3.7	Ecological Resources.....	9-25
9.3.7.1	Environmental Consequences of the Contemplated Uses	9-25
9.3.8	Cultural Resources.....	9-26
9.3.8.1	Environmental Consequences of the Contemplated Uses	9-27
9.3.9	Geology and Soils.....	9-27
9.3.9.1	Environmental Consequences of the Contemplated Uses	9-27
9.3.10	Water Resources.....	9-27
9.3.10.1	Environmental Consequences of the Contemplated Uses	9-27
9.3.11	Air Resources	9-28
9.3.11.1	Environmental Consequences of the Contemplated Uses	9-28
9.3.11.2	Global Climate Change.....	9-28
9.3.12	Human Health.....	9-29
9.3.12.1	Environmental Consequences of the Contemplated Uses	9-29
9.3.12.2	Chemical Accidents.....	9-29
9.3.12.3	Radiological Accidents.....	9-30
9.3.12.4	Natural Event Accidents.....	9-30
9.3.13	Environmental Justice.....	9-30
9.3.14	Irreversible and Irretrievable Commitment of Resources.....	9-32
9.3.15	Unavoidable Adverse Environmental Impacts.....	9-32
9.3.16	Relationship Between Local Short-Term Use of the Environment and the Maintenance of Long-Term Productivity	9-33

TABLE OF CONTENTS

10.0	TECHNICAL AREA 21 TRACT.....	10-1
10.1	Affected Environment.....	10-1
10.1.1	Land Use	10-1
	10.1.1.1 Environmental Restoration	10-3
10.1.2	Transportation.....	10-3
10.1.3	Infrastructure	10-6
10.1.4	Noise	10-6
10.1.5	Visual Resources	10-6
10.1.6	Socioeconomics.....	10-9
10.1.7	Ecological Resources.....	10-9
10.1.8	Cultural Resources.....	10-9
10.1.9	Geology and Soils.....	10-10
10.1.10	Water Resources.....	10-10
10.1.11	Air Resources	10-11
	10.1.11.1 Global Climate Change.....	10-11
10.1.12	Human Health.....	10-12
	10.1.12.1 The Radiological Environment for the TA 21 Tract.....	10-12
	10.1.12.2 The Nonradiological Environment for the TA 21 Tract.....	10-12
	10.1.12.3 Facility Accidents.....	10-12
10.1.13	Environmental Justice.....	10-15
10.2	No Action Alternative.....	10-15
10.2.1	Land Use	10-15
	10.2.1.1 Environmental Restoration	10-15
10.2.2	Transportation.....	10-16
10.2.3	Infrastructure	10-16
10.2.4	Noise	10-16
10.2.5	Visual Resources	10-16
10.2.6	Socioeconomics.....	10-16
10.2.7	Ecological Resources.....	10-16
10.2.8	Cultural Resources.....	10-17
10.2.9	Geology and Soils.....	10-17
10.2.10	Water Resources.....	10-17
10.2.11	Air Resources	10-17
10.2.12	Human Health.....	10-17
	10.2.12.1 Chemical Accidents.....	10-17
	10.2.12.2 Radiological Accidents.....	10-18
	10.2.12.3 Natural Event Accidents.....	10-18
10.2.13	Environmental Justice.....	10-18
10.3	Proposed Action Alternative	10-18
10.3.1	Land Use	10-18
	10.3.1.1 Description of Contemplated Uses.....	10-19
	10.3.1.2 Environmental Consequences of the Contemplated Uses	10-19
	10.3.1.3 Environmental Restoration	10-19
10.3.2	Transportation.....	10-19
	10.3.2.1 Environmental Consequences of the Contemplated Uses	10-19
10.3.3	Infrastructure	10-21

TABLE OF CONTENTS

10.3.3.1	Environmental Consequences of the Contemplated Uses	10-22
10.3.4	Noise	10-22
10.3.4.1	Environmental Consequences of the Contemplated Uses	10-22
10.3.5	Visual Resources	10-23
10.3.5.1	Environmental Consequences of the Contemplated Uses	10-23
10.3.6	Socioeconomics	10-23
10.3.6.1	Environmental Consequences of the Contemplated Uses	10-23
10.3.7	Ecological Resources	10-23
10.3.7.1	Environmental Consequences of the Contemplated Uses	10-23
10.3.8	Cultural Resources	10-24
10.3.8.1	Environmental Consequences of the Contemplated Uses	10-25
10.3.9	Geology and Soils	10-25
10.3.9.1	Environmental Consequences of the Contemplated Uses	10-25
10.3.10	Water Resources	10-25
10.3.10.1	Environmental Consequences of the Contemplated Uses	10-25
10.3.11	Air Resources	10-26
10.3.11.1	Environmental Consequences of the Contemplated Uses	10-26
10.3.11.2	Global Climate Change	10-26
10.3.12	Human Health	10-26
10.3.12.1	Environmental Consequences of the Contemplated Uses	10-26
10.3.12.2	Chemical Accidents	10-27
10.3.12.3	Radiological Accidents	10-27
10.3.12.4	Natural Event Accidents	10-27
10.3.13	Environmental Justice	10-28
10.3.14	Irreversible and Irrecoverable Commitment of Resources	10-29
10.3.15	Unavoidable Adverse Environmental Impacts	10-29
10.3.16	Relationship Between Local Short-Term Use of the Environment and the Maintenance of Long-Term Productivity	10-30

11.0	AIRPORT TRACT	11-1
11.1	Affected Environment	11-1
11.1.1	Land Use	11-1
11.1.1.1	Environmental Restoration	11-3
11.1.2	Transportation	11-3
11.1.3	Infrastructure	11-3
11.1.4	Noise	11-8
11.1.5	Visual Resources	11-8
11.1.6	Socioeconomics	11-8
11.1.7	Ecological Resources	11-8
11.1.8	Cultural Resources	11-9
11.1.9	Geology and Soils	11-9
11.1.10	Water Resources	11-9
11.1.11	Air Resources	11-9
11.1.11.1	Global Climate Change	11-10
11.1.12	Human Health	11-10

TABLE OF CONTENTS

11.1.12.1	The Radiological Environment for the Airport Tract.....	11-10
11.1.12.2	The Nonradiological Environment for the Airport Tract	11-12
11.1.12.3	Facility Accidents.....	11-12
11.1.13	Environmental Justice.....	11-13
11.2	No Action Alternative.....	11-13
11.2.1	Land Use	11-13
11.2.1.1	Environmental Restoration	11-14
11.2.2	Transportation.....	11-14
11.2.3	Infrastructure	11-14
11.2.4	Noise	11-15
11.2.5	Visual Resources	11-15
11.2.6	Socioeconomics.....	11-15
11.2.7	Ecological Resources.....	11-15
11.2.8	Cultural Resources.....	11-15
11.2.9	Geology and Soils.....	11-15
11.2.10	Water Resources.....	11-15
11.2.11	Air Resources	11-16
11.2.11.1	Global Climate Change.....	11-16
11.2.12	Human Health.....	11-16
11.2.12.1	Chemical Accidents.....	11-16
11.2.12.2	Radiological Accidents.....	11-16
11.2.12.3	Natural Event Accidents.....	11-16
11.2.13	Environmental Justice.....	11-17
11.3	Proposed Action Alternative	11-17
11.3.1	Land Use	11-17
11.3.1.1	Description of Contemplated Uses.....	11-17
11.3.1.2	Environmental Consequences of the Contemplated Uses	11-19
11.3.1.3	Environmental Restoration	11-19
11.3.2	Transportation.....	11-19
11.3.2.1	Environmental Consequences of the Contemplated Uses	11-19
11.3.3	Infrastructure	11-20
11.3.3.1	Environmental Consequences of the Contemplated Uses	11-20
11.3.4	Noise	11-21
11.3.4.1	Environmental Consequences of the Contemplated Uses	11-21
11.3.5	Visual Resources	11-21
11.3.5.1	Environmental Consequences of the Contemplated Uses	11-21
11.3.6	Socioeconomics.....	11-22
11.3.6.1	Environmental Consequences of the Contemplated Uses	11-22
11.3.7	Ecological Resources.....	11-22
11.3.7.1	Environmental Consequences of the Contemplated Uses	11-22
11.3.8	Cultural Resources.....	11-23
11.3.8.1	Environmental Consequences of the Contemplated Uses	11-23
11.3.9	Geology and Soils.....	11-24
11.3.9.1	Environmental Consequences of the Contemplated Uses	11-24
11.3.10	Water Resources.....	11-24
11.3.10.1	Environmental Consequences of the Contemplated Uses	11-24

TABLE OF CONTENTS

11.3.11	Air Resources	11-24
11.3.11.1	Environmental Consequences of the Contemplated Uses	11-24
11.3.11.2	Global Climate Change.....	11-24
11.3.12	Human Health.....	11-25
11.3.12.1	Environmental Consequences of the Contemplated Uses	11-25
11.3.12.2	Chemical Accidents.....	11-25
11.3.12.3	Radiological Accidents.....	11-25
11.3.12.4	Natural Event Accidents.....	11-26
11.3.13	Environmental Justice.....	11-27
11.3.14	Irreversible and Irretrievable Commitment of Resources.....	11-27
11.3.15	Unavoidable Adverse Environmental Impacts.....	11-27
11.3.16	Relationship Between Local Short-Term Use of the Environment and the Maintenance of Long-Term Productivity	11-28
<hr style="border: 1px solid black;"/>		
12.0	WHITE ROCK Y TRACT.....	12-1
12.1	Affected Environment.....	12-1
12.1.1	Land Use	12-1
12.1.1.1	Environmental Restoration	12-1
12.1.2	Transportation.....	12-4
12.1.3	Infrastructure	12-4
12.1.4	Noise	12-4
12.1.5	Visual Resources	12-7
12.1.6	Socioeconomics.....	12-7
12.1.7	Ecological Resources.....	12-7
12.1.8	Cultural Resources.....	12-8
12.1.9	Geology and Soils.....	12-8
12.1.10	Water Resources.....	12-8
12.1.11	Air Resources	12-9
12.1.11.1	Global Climate Change.....	12-9
12.1.12	Human Health.....	12-9
12.1.12.1	The Radiological Environment for the White Rock Y Tract.....	12-9
12.1.12.2	The Nonradiological Environment for the White Rock Y Tract.....	12-10
12.1.12.3	Facility Accidents.....	12-10
12.1.13	Environmental Justice.....	12-11
12.2	No Action Alternative.....	12-12
12.2.1	Land Use	12-12
12.2.1.1	Environmental Restoration	12-12
12.2.2	Transportation.....	12-12
12.2.3	Infrastructure	12-12
12.2.4	Noise	12-13
12.2.5	Visual Resources	12-13
12.2.6	Socioeconomics.....	12-13
12.2.7	Ecological Resources.....	12-13

TABLE OF CONTENTS

12.2.8	Cultural Resources.....	12-13
12.2.9	Geology and Soils.....	12-13
12.2.10	Water Resources.....	12-13
12.2.11	Air Resources	12-13
12.2.11.1	Global Climate Change.....	12-13
12.2.12	Human Health.....	12-14
12.2.12.1	Chemical Accidents.....	12-14
12.2.12.2	Radiological Accidents.....	12-14
12.2.12.3	Natural Event Accidents.....	12-14
12.2.13	Environmental Justice.....	12-14
12.3	Proposed Action Alternative	12-14
12.3.1	Land Use	12-15
12.3.1.1	Description of Contemplated Uses.....	12-15
12.3.1.2	Environmental Consequences of the Contemplated Uses	12-16
12.3.1.3	Environmental Restoration	12-16
12.3.2	Transportation.....	12-16
12.3.2.1	Environmental Consequences of the Contemplated Uses	12-16
12.3.3	Infrastructure	12-16
12.3.3.1	Environmental Consequences of the Contemplated Uses	12-16
12.3.4	Noise	12-17
12.3.4.1	Environmental Consequences of the Contemplated Uses	12-17
12.3.5	Visual Resources	12-17
12.3.5.1	Environmental Consequences of the Contemplated Uses	12-17
12.3.6	Socioeconomics.....	12-17
12.3.6.1	Environmental Consequences of the Contemplated Uses	12-17
12.3.7	Ecological Resources.....	12-17
12.3.7.1	Environmental Consequences of the Contemplated Uses	12-18
12.3.8	Cultural Resources.....	12-18
12.3.8.1	Environmental Consequences of the Contemplated Uses	12-19
12.3.9	Geology and Soils.....	12-19
12.3.9.1	Environmental Consequences of the Contemplated Uses	12-19
12.3.10	Water Resources.....	12-20
12.3.10.1	Environmental Consequences of the Contemplated Uses	12-20
12.3.11	Air Resources	12-20
12.3.11.1	Environmental Consequences of the Contemplated Uses	12-20
12.3.11.2	Global Climate Change.....	12-20
12.3.12	Human Health.....	12-20
12.3.12.1	Environmental Consequences of the Contemplated Uses	12-20
12.3.12.2	Chemical Accidents.....	12-20
12.3.12.3	Radiological Accidents.....	12-20
12.3.12.4	Natural Event Accidents.....	12-20
12.3.13	Environmental Justice.....	12-21
12.3.14	Irreversible and Irretrievable Commitment of Resources.....	12-21
12.3.15	Unavoidable Adverse Environmental Impacts.....	12-21
12.3.16	Relationship Between Local Short-Term Use of the Environment and the Maintenance of Long-Term Productivity	12-22

TABLE OF CONTENTS

13.0	TECHNICAL AREA 74 TRACT.....	13-1
13.1	Affected Environment.....	13-1
13.1.1	Land Use	13-1
13.1.1.1	Environmental Restoration	13-3
13.1.2	Transportation.....	13-3
13.1.3	Infrastructure	13-6
13.1.4	Noise	13-6
13.1.5	Visual Resources	13-6
13.1.6	Socioeconomics	13-8
13.1.7	Ecological Resources.....	13-8
13.1.8	Cultural Resources.....	13-8
13.1.9	Geology and Soils.....	13-9
13.1.10	Water Resources.....	13-9
13.1.11	Air Resources	13-9
13.1.11.1	Global Climate Change.....	13-10
13.1.12	Human Health.....	13-10
13.1.12.1	The Radiological Environment for the TA 74 Tract.....	13-10
13.1.12.2	The Nonradiological Environment for the TA 74 Tract.....	13-10
13.1.12.3	Facility Accidents.....	13-10
13.1.13	Environmental Justice.....	13-12
13.2	No Action Alternative.....	13-12
13.2.1	Land Use	13-12
13.2.1.1	Environmental Restoration	13-12
13.2.2	Transportation.....	13-12
13.2.3	Infrastructure	13-13
13.2.4	Noise	13-13
13.2.5	Visual Resources	13-13
13.2.6	Socioeconomics.....	13-13
13.2.7	Ecological Resources.....	13-13
13.2.8	Cultural Resources.....	13-13
13.2.9	Geology and Soils.....	13-13
13.2.10	Water Resources.....	13-13
13.2.11	Air Resources	13-14
13.2.12	Human Health.....	13-14
13.2.12.1	Chemical Accidents.....	13-14
13.2.12.2	Radiological Accidents.....	13-14
13.2.12.3	Natural Event Accidents.....	13-14
13.2.13	Environmental Justice.....	13-14
13.3	Proposed Action Alternative	13-15
13.3.1	Land Use	13-15
13.3.1.1	Description of Contemplated Uses.....	13-15
13.3.1.2	Environmental Consequences of the Contemplated Uses	13-16
13.3.1.3	Environmental Restoration	13-16
13.3.2	Transportation.....	13-16

TABLE OF CONTENTS

13.3.2.1	Environmental Consequences of the Contemplated Uses	13-16
13.3.3	Infrastructure	13-17
13.3.3.1	Environmental Consequences of the Contemplated Uses	13-17
13.3.4	Noise	13-17
13.3.4.1	Environmental Consequences of the Contemplated Uses	13-17
13.3.5	Visual Resources	13-17
13.3.5.1	Environmental Consequences of the Contemplated Uses	13-17
13.3.6	Socioeconomics	13-18
13.3.6.1	Environmental Consequences of the Contemplated Uses	13-18
13.3.7	Ecological Resources	13-18
13.3.7.1	Environmental Consequences of the Contemplated Uses	13-18
13.3.8	Cultural Resources	13-19
13.3.8.1	Environmental Consequences of the Contemplated Uses	13-19
13.3.9	Geology and Soils	13-20
13.3.9.1	Environmental Consequences of the Contemplated Uses	13-20
13.3.10	Water Resources	13-20
13.3.10.1	Environmental Consequences of the Contemplated Uses	13-20
13.3.11	Air Resources	13-20
13.3.11.1	Environmental Consequences of the Contemplated Uses	13-20
13.3.11.2	Global Climate Change	13-20
13.3.12	Human Health	13-21
13.3.12.1	Environmental Consequences of the Contemplated Uses	13-21
13.3.12.2	Chemical Accidents	13-21
13.3.12.3	Radiological Accidents	13-21
13.3.12.4	Natural Event Accidents	13-21
13.3.13	Environmental Justice	13-21
13.3.14	Irreversible and Irretrievable Commitment of Resources	13-22
13.3.15	Unavoidable Adverse Environmental Impacts	13-22
13.3.16	Relationship Between Local Short-Term Use of the Environment and the Maintenance of Long-Term Productivity	13-22

14.0	WHITE ROCK TRACT	14-1
14.1	Affected Environment	14-1
14.1.1	Land Use	14-1
14.1.1.1	Environmental Restoration	14-4
14.1.2	Transportation	14-4
14.1.3	Infrastructure	14-4
14.1.4	Noise	14-7
14.1.5	Visual Resources	14-7
14.1.6	Socioeconomics	14-7
14.1.7	Ecological Resources	14-7
14.1.8	Cultural Resources	14-8
14.1.9	Geology and Soils	14-8
14.1.10	Water Resources	14-8
14.1.11	Air Resources	14-8

TABLE OF CONTENTS

14.1.11.1	Global Climate Change.....	14-9
14.1.12	Human Health.....	14-9
14.1.12.1	The Radiological Environment for the White Rock Tract	14-9
14.1.12.2	The Nonradiological Environment for the White Rock Tract ...	14-9
14.1.12.3	Facility Accidents.....	14-10
14.1.13	Environmental Justice.....	14-10
14.2	No Action Alternative.....	14-10
14.2.1	Land Use	14-10
14.2.1.1	Environmental Restoration	14-12
14.2.2	Transportation.....	14-12
14.2.3	Infrastructure	14-12
14.2.4	Noise	14-12
14.2.5	Visual Resources	14-13
14.2.6	Socioeconomics.....	14-13
14.2.7	Ecological Resources.....	14-13
14.2.8	Cultural Resources.....	14-13
14.2.9	Geology and Soils.....	14-13
14.2.10	Water Resources.....	14-13
14.2.11	Air Resources	14-13
14.2.11.1	Global Climate Change.....	14-13
14.2.12	Human Health.....	14-13
14.2.12.1	Chemical Accidents.....	14-14
14.2.12.2	Radiological Accidents.....	14-14
14.2.12.3	Natural Event Accidents.....	14-14
14.2.13	Environmental Justice.....	14-14
14.3	Proposed Action Alternative	14-14
14.3.1	Land Use	14-15
14.3.1.1	Description of Contemplated Uses.....	14-15
14.3.1.2	Environmental Consequences of the Contemplated Uses	14-15
14.3.1.3	Environmental Restoration	14-18
14.3.2	Transportation.....	14-19
14.3.2.1	Environmental Consequences of the Contemplated Uses	14-19
14.3.3	Infrastructure	14-20
14.3.3.1	Environmental Consequences of the Contemplated Uses	14-20
14.3.4	Noise	14-20
14.3.4.1	Environmental Consequences of the Contemplated Uses	14-20
14.3.5	Visual Resources	14-21
14.3.5.1	Environmental Consequences of the Contemplated Uses	14-21
14.3.6	Socioeconomics.....	14-22
14.3.6.1	Environmental Consequences of the Contemplated Uses	14-22
14.3.7	Ecological Resources.....	14-22
14.3.7.1	Environmental Consequences of the Contemplated Uses	14-22
14.3.8	Cultural Resources.....	14-24
14.3.8.1	Environmental Consequences of the Contemplated Uses	14-24
14.3.9	Geology and Soils.....	14-25
14.3.9.1	Environmental Consequences of the Contemplated Uses	14-25

TABLE OF CONTENTS

14.3.10	Water Resources	14-26
14.3.10.1	Environmental Consequences of the Contemplated Uses	14-26
14.3.11	Air Resources	14-26
14.3.11.1	Environmental Consequences of the Contemplated Uses	14-26
14.3.11.2	Global Climate Change.....	14-27
14.3.12	Human Health.....	14-27
14.3.12.1	Environmental Consequences of the Contemplated Uses	14-27
14.3.12.2	Chemical Accidents.....	14-27
14.3.12.3	Radiological Accidents.....	14-27
14.3.12.4	Natural Event Accidents.....	14-28
14.3.13	Environmental Justice.....	14-30
14.3.14	Irreversible and Irretrievable Commitment of Resources.....	14-30
14.3.15	Unavoidable Adverse Environmental Impacts.....	14-31
14.3.16	Relationship Between Local Short-Term Use of the Environment and the Maintenance of Long-Term Productivity	14-31
<hr/>		
15.0	CUMULATIVE IMPACTS	15-1
15.1	Introduction	15-1
15.2	Methods of Analysis	15-1
15.3	Cumulative Impacts by Resource Area	15-2
15.3.1	Land Use	15-2
15.3.2	Transportation.....	15-8
15.3.3	Infrastructure	15-10
15.3.4	Noise	15-13
15.3.5	Visual Resources	15-13
15.3.6	Socioeconomics.....	15-13
15.3.7	Ecological Resources.....	15-14
15.3.8	Cultural Resources.....	15-15
15.3.9	Geology and Soils.....	15-16
15.3.10	Water Resources.....	15-16
15.3.10.1	Water Quantity	15-17
15.3.10.2	Water Quality	15-17
15.3.11	Air Resources	15-17
15.3.12	Human Health.....	15-18
15.3.13	Environmental Justice.....	15-19
15.3.14	Irreversible and Irretrievable Commitment of Resources.....	15-19
15.3.15	Unavoidable Adverse Environmental Impacts.....	15-20
15.3.16	Relationship Between Short-Term Uses of the Environment and the Maintenance and Enhancement of Long-Term Productivity	15-20
<hr/>		
16.0	MITIGATION MEASURES.....	16-1
16.1	Introduction	16-1
16.2	Mitigations Prior to Conveyance or Transfer.....	16-1
16.3	Recommended Mitigations	16-2

TABLE OF CONTENTS

16.4	Potential Resource-Specific Mitigations.....	16-4
16.4.1	Land Use	16-4
16.4.1.1	Environmental Restoration	16-4
16.4.2	Transportation.....	16-4
16.4.3	Infrastructure	16-4
16.4.4	Noise	16-5
16.4.5	Visual Resources	16-6
16.4.6	Socioeconomics.....	16-6
16.4.7	Ecological Resources.....	16-6
16.4.8	Cultural Resources.....	16-7
16.4.9	Geology and Soils.....	16-7
16.4.10	Water Resources.....	16-7
16.4.11	Air Resources	16-8
16.4.11.1	Global Climate Change.....	16-8
16.4.12	Human Health.....	16-8
16.4.13	Environmental Justice.....	16-8
<hr/>		
17.0	APPLICABLE LAWS, REGULATIONS, PERMITS, AND DOE ORDERS.....	17-1
17.1	Introduction	17-1
17.1.1	Conveyance and Transfer Process Steps.....	17-1
17.1.2	Environmental Restoration Process.....	17-3
17.1.3	Ecological Consultation Process	17-3
17.1.4	Cultural Consultation Process	17-4
17.2	DOE Regulatory Authorities for Environment, Safety, and Health.....	17-5
17.3	Laws, Regulations, and Executive Orders Related to Environmental Planning and Consultation	17-5
17.4	Laws, Regulations, and Executive Orders Related to Regulatory Environmental Protection and Compliance	17-5
17.4.1	Air Resources	17-9
17.4.1.1	Council on Environmental Quality Draft Guidance Regarding Consideration of Global Climatic Change in Environmental Documents Prepared Pursuant to NEPA	17-9
17.4.2	Water Resources.....	17-10
17.4.3	Waste Management, Toxic Substances, Pollution Prevention, and Environmental Restoration.....	17-10
17.5	Community Right-to-Know and Emergency Planning.....	17-10
<hr/>		
18.0	CONSULTATIONS AND COORDINATION.....	18-1
18.1	Cooperating Agency Statements	18-1
18.2	Consultation Letters.....	18-45
<hr/>		
19.0	REFERENCES.....	19-1
<hr/>		

TABLE OF CONTENTS

20.0 LIST OF PREPARERS.....	20-1
<hr/>	
21.0 LIST OF AGENCIES, ORGANIZATIONS, AND INDIVIDUALS TO WHOM COPIES OF THIS EIS HAVE BEEN SENT	21-1
<hr/>	
22.0 GLOSSARY	22-1
<hr/>	
23.0 INDEX	23-1
<hr/>	
APPENDIX A PUBLIC LAW 105-119	A-1
APPENDIX B ENVIRONMENTAL RESTORATION DATA	B-1
APPENDIX C FEDERAL REGISTER NOTICES	C-1
APPENDIX D FLOODPLAINS AND WETLANDS	D-1
APPENDIX E CULTURAL RESOURCE ASSESSMENT.....	E-1
APPENDIX F CONTRACTOR DISCLOSURE STATEMENTS	F-1
APPENDIX G HUMAN HEALTH.....	G-1
APPENDIX H COMMENT RESPONSE DOCUMENT.....	H-1

LIST OF FIGURES

Figure 1-1	Location of the Los Alamos National Laboratory	1-2
Figure 1-2	Communities and Technical Areas of Los Alamos National Laboratory and Subject Tracts.....	1-3
Figure 1.1.2-1	Land Owners and Stewards Surrounding LANL.....	1-7
Figure 3.2.1-1	Location of the Los Alamos National Laboratory	3-2
Figure 3.2.1-2	Recreational Trails in the Los Alamos Area	3-4
Figure 3.2.7-1	Vegetation Zones in the Los Alamos Area.....	3-18
Figure 3.2.9.1-1	Major Surface Faults in the Los Alamos Region.....	3-33
Figure 3.2.13-1	Minority Population Distribution for Los Alamos National Laboratory and Surrounding Area	3-45
Figure 3.2.13-2	Low-Income Population Distribution for Los Alamos National Laboratory and Surrounding Area	3-46
Figure 5.1.1-1	Rendija Canyon Tract Layout.....	5-2
Figure 5.1.1.1-1	Rendija Canyon Tract Potential Contamination Issue Areas	5-4
Figure 5.1.3-1	Rendija Canyon Tract Utilities and Infrastructure.....	5-6
Figure 5.3.1.1-1	Rendija Canyon Tract Contemplated Land Uses.....	5-17
Figure 6.1.1-1	DOE Los Alamos Area Office Tract Site Layout.....	6-2
Figure 6.1.1-2	DOE Los Alamos Area Office Tract Monitoring Stations and Outfall Locations.....	6-3
Figure 6.1.1.1-1	DOE Los Alamos Area Office Tract Potential Contamination Issue Areas.....	6-5
Figure 6.1.3-1	DOE Los Alamos Area Office Tract Utilities and Infrastructure.....	6-6
Figure 6.1.12.1-1	DOE Los Alamos Area Office Tract Radiation Site Evaluation Circle	6-10
Figure 6.3.1.1-1	DOE Los Alamos Area Office Tract Contemplated Land Uses.....	6-18
Figure 7.1.1-1	Miscellaneous Site 22 Tract Layout	7-2
Figure 7.1.1-2	Miscellaneous Site 22 Tract Monitoring Stations and Outfall Locations	7-3
Figure 7.1.1.1-1	Miscellaneous Site 22 Tract Potential Contamination Issue Areas	7-4
Figure 7.1.3-1	Miscellaneous Site 22 Tract Utilities and Infrastructure.....	7-6
Figure 8.1-1	Miscellaneous Manhattan Monument Tract Site Layout	8-2
Figure 9.1.1-1	DP Road Tract Layout	9-2
Figure 9.1.1-2	DP Road Tract Monitoring Stations and Outfall Locations	9-4
Figure 9.1.1.1-1	DP Road Tract Potential Contamination Issue Areas	9-5
Figure 9.1.3-1	DP Road Tract Utilities and Infrastructures	9-6
Figure 9.1.3-2	DP Road Tract Industrial and Security Fence Lines.....	9-7
Figure 9.1.12.1-1	DP Road Tract Radiation Site Evaluation Circle.....	9-12
Figure 9.3.1.1-1	DP Road Tract Industrial and Commercial Land Use	9-19
Figure 9.3.1.1-2	DP Road Tract Commercial and Residential Land Use.....	9-20
Figure 10.1.1-1	Technical Area 21 Tract Layout	10-2
Figure 10.1.1-2	Technical Area 21 Tract Monitoring Stations and Outfall Locations.....	10-4
Figure 10.1.1.1-1	Technical Area 21 Tract Potential Contamination Issue Areas.....	10-5
Figure 10.1.3-1	Technical Area Utilities and Infrastructure	10-7
Figure 10.1.3-2	Technical Area 21 Industrial and Security Fence Lines.....	10-8

LIST OF FIGURES

Figure 10.1.12.1-1	Technical Area 21 Radiation Site Evaluation Circles.....	10-13
Figure 10.3.1.1-1	Technical Area 21 Contemplated Land Uses	10-20
Figure 11.1.1-1	Airport Tract Layout	11-2
Figure 11.1.1-2	Airport Tract Monitoring and Outfall Locations	11-4
Figure 11.1.1.1-1	Airport Tract Potential Contamination Issue Areas.....	11-5
Figure 11.1.3-1	Airport Tract Utilities and Infrastructure	11-6
Figure 11.1.3-2	Airport Tract Industrial and Security Fence Lines.....	11-7
Figure 11.1.12.1-1	Airport Tract Radiation Site Evaluation Circles.....	11-11
Figure 11.3.1.1-1	Airport Tract Contemplated Land Uses	11-18
Figure 12.1.1-1	White Rock Y Tract Layout	12-2
Figure 12.1.1-2	White Rock Y Tract Monitoring Stations and Outfall Locations.....	12-3
Figure 12.1.1.1-1	White Rock Y Tract Potential Contamination Issue Areas	12-5
Figure 12.1.3-1	White Rock Y Tract Utilities and Infrastructure	12-6
Figure 13.1.1-1	Technical Area 74 Tract Layout	13-2
Figure 13.1.1-2	Technical Area 74 Tract Monitoring Stations and Outfall Locations.....	13-4
Figure 13.1.1.1-1	Technical Area 74 Tract Potential Contamination Issue Areas.....	13-5
Figure 13.1.3-1	Technical Area 74 Tract Utilities and Infrastructure	13-7
Figure 14.1.1-1	White Rock Tract Layout.....	14-2
Figure 14.1.1-2	White Rock Tract Monitoring Stations and Outfall Locations	14-3
Figure 14.1.1.1-1	White Rock Tract Potential Contamination Issue Areas.....	14-5
Figure 14.1.3-1	White Rock Tract Utilities and Infrastructure	14-6
Figure 14.3.1.1-1	White Rock Tract Residential Land Use.....	14-16
Figure 14.3.1.1-2	White Rock Tract Cultural Preservation and Commercial Land Use.....	14-17

LIST OF TABLES

Table 1.1.3-1	PL 105-119 Conveyance and Transfer Process Steps.....	1-11
Table 2.5.1-1	Comparison of Impacts of the Alternatives.....	2-18
Table 2.5.1-2	Summary of Impacts by Land Tract, Resource Area, and Land Use Scenario	2-25
Table 3.2.1.1-1	Summary of Environmental Restoration Sites and Issues Tentatively Identified for Land Transfer Tracts	3-6
Table 3.2.3-1	Annual Usage and Capacity of Utilities	3-9
Table 3.2.4-1	Comparative A-Weighted Sound Levels.....	3-11
Table 3.2.6.2-1	Employment by Sector in the Region of Influence.....	3-14
Table 3.2.6.2-2	Unemployment in the Region of Influence and New Mexico.....	3-14
Table 3.2.6.3-1	Population Estimates for the Region of Influence	3-15
Table 3.2.6.3-2	Region of Influence Housing Characteristics (1990).....	3-16
Table 3.2.6.4-1	Public School Statistics in the LANL Region of Influence (1995-1996 School Year)	3-16
Table 3.2.7-1	Protected and Sensitive Species.....	3-20
Table 3.2.8.1-1	Timetable for Cultures in the LANL Region.....	3-28
Table 3.2.8.5-1	Known Cultural Sites by Tract and Eligibility	3-31
Table 3.2.9.2-1	Summary of Major Faults in the LANL Region.....	3-34
Table 3.2.11.4-1	Dose to the Maximally Exposed Individual from Exposure to LANL Radioactive Air Pollutants	3-40
Table 3.2.12.1-1	Total Effective Radiation Dose Equivalent from Natural or Manmade Sources	3-42
Table 4.1.4-1	CT EIS Development Assumptions	4-4
Table 4.1.4-2	Assumed Structure Status at Time of Conveyance or Transfer.....	4-5
Table 4.2.2-1	Level of Service Letter Designations and Definitions	4-7
Table 4.2.12.3-1	Summary of Potential LANL Accidents Considered in the Human Health Analysis.....	4-15
Table 5.1.12.3-1	MEI Doses at Rendija Canyon Resulting from Hypothetical Accidents at LANL Facilities	5-10
Table 5.3.1.1-1	Attributes of Future Land Use for the Rendija Canyon Tract Under the Natural Areas and Residential Scenario	5-15
Table 5.3.1.1-2	Attributes of Future Land Use for the Rendija Canyon Tract Under the Cultural Preservation Land Use Scenario.....	5-16
Table 5.3.2.1-1	Estimated Increase in Traffic for the Contemplated Natural Areas and Residential Development Scenario.....	5-18
Table 5.3.3.1-1	Estimated Increase in Utility Usage for Proposed Development in Rendija Canyon.....	5-20
Table 5.3.12.3-1	Additional Accident Consequences Associated with the Natural Areas and Residential Development Scenario on the Rendija Canyon Tract	5-28
Table 6.1.12.3-1	MEI Doses for the DOE LAAO Tract Resulting from Hypothetical Accidents at LANL Facilities	6-12
Table 6.3.1.1-1	Attributes of Future Land Use for the DOE LAAO Tract Under the Residential Development Scenario	6-17

LIST OF TABLES

Table 6.3.1.1-2	Attributes of Future Land Use for the DOE LAAO Tract Under the Commercial Development Scenario	6-17
Table 6.3.2.1-1	Estimated Increase in Traffic for the Residential Development Scenario	6-19
Table 6.3.3.1-1	Estimated Increase in Utility Usage for the Residential Development Land Use Scenario on the DOE LAAO Tract	6-20
Table 6.3.3.1-2	Estimated Increase in Utility Usage for the Commercial Development Land Use Scenario on the DOE LAAO Tract	6-21
Table 6.3.12.3-1	Additional Accident Consequences Associated with Contemplated Land Uses on the DOE LAAO Tract.....	6-28
Table 7.1.12.3-1	MEI Doses for the Miscellaneous Site 22 Tract Resulting from Hypothetical Accidents at LANL Facilities	7-9
Table 9.1.12.3-1	MEI Doses at the DP Road Tract Resulting from Hypothetical Accidents at LANL Facilities	9-13
Table 9.3.1.1-1	Attributes of Future Land Use for the DP Road Tract Under the Industrial and Commercial Land Use Scenario	9-18
Table 9.3.1.1-2	Attributes of Future Land Use for the DP Road Tract Under the Commercial and Residential Land Use Scenario	9-18
Table 9.3.2.1-1	Estimated Increase in Traffic for the Contemplated Land Use for the DP Road Tract.....	9-22
Table 9.3.3.1-1	Estimated Increase in Utility Usage for the Industrial and Commercial Land Use Scenario on the DP Road Tract.....	9-23
Table 9.3.3.1-2	Estimated Increase in Utility Usage for the Commercial and Residential Land Use Scenario on the DP Road Tract	9-24
Table 9.3.12.3-1	Additional Accident Consequences Associated with Contemplated Land Use on the DP Road Tract	9-31
Table 10.1.11-1	Steam Plant Emissions	10-11
Table 10.1.12.3-1	MEI Doses for the TA 21 Tract Resulting from Hypothetical Accidents at LANL Facilities	10-14
Table 10.3.2.1-1	Estimated Increase in Traffic for the Commercial and Industrial Development Land Use Scenario.....	10-21
Table 10.3.3.1-1	Estimated Increase in Utility Usage for the Commercial and Industrial Land Use Scenario on the TA 21 Tract.....	10-22
Table 10.3.12.3-1	Additional Accident Consequences Associated with the Commercial and Industrial Land Use on the TA 21 Tract.....	10-28
Table 11.1.12.3-1	MEI Doses for the Airport Tract Resulting from Hypothetical Accidents at LANL Facilities	11-13
Table 11.3.1.1-1	Attributes of Future Land Uses for the Airport Tract Under the Airport, Commercial, and Industrial Land Use Scenario (North and South of State Road 502).....	11-19
Table 11.3.2.1-1	Estimated Increase in Traffic for the Airport, Commercial, and Industrial Land Use Scenario.....	11-20
Table 11.3.3.1-1	Estimated Increase in Utility Usage for the Commercial and Industrial Land Use Scenario on the Airport Tract.....	11-21
Table 11.3.12.3-1	Additional Accident Consequences Associated with Airport, Commercial, and Industrial Land Use Scenario on the Airport Tract	11-26

LIST OF TABLES

Table 12.1.2-1	Traffic Volume Estimates.....	12-4
Table 12.1.10-1	Los Alamos and Sandia Canyons Gaging Summary	12-9
Table 12.1.12.3-1	MEI Doses for the White Rock Y Tract Resulting from Hypothetical Accidents at LANL Facilities	12-11
Table 12.3.1.1-1	Attributes of Future Land Use for the White Rock Y Tract Under the Cultural Preservation Land Use Scenario.....	12-15
Table 12.3.1.1-2	Attributes of Future Land Use for the White Rock Y Tract Under the Natural Areas, Transportation, and Utilities Land Use Scenario.....	12-15
Table 13.1.2-1	Traffic Volume Estimates.....	13-6
Table 13.1.12.3-1	MEI Doses for the TA 74 Tract Resulting from Hypothetical Accidents at LANL Facilities	13-11
Table 13.3.1.1-1	Attributes of Future Land Use for the TA 74 Tract Under the Cultural Preservation Land Use Scenario	13-15
Table 13.3.1.1-2	Attributes of Future Land Use for the TA 74 Tract Under the Natural Areas and Utilities Land Use Scenario.....	13-15
Table 14.1.2-1	Traffic Volume Estimates.....	14-4
Table 14.1.12.3-1	MEI Doses for the White Rock Tract Resulting from Hypothetical Accidents at LANL Facilities	14-11
Table 14.3.1.1-1	Attributes of Future Residences Land Use for the White Rock Tract Under the Commercial and Residential Land Use Scenario	14-18
Table 14.3.1.1-2	Attributes of Future Land Use for the White Rock Tract Under the Cultural Preservation and Commercial Land Use Scenario.....	14-18
Table 14.3.2.1-1	Estimated Increase in Traffic for the Commercial and Residential Development Land Use Scenario.....	14-19
Table 14.3.3.1-1	Estimated Increase in Utility Usage for Commercial and Residential Development Land Use Scenario for the White Rock Tract.....	14-21
Table 14.3.3.1-2	Estimated Increase in Utility Usage for Cultural Preservation and Commercial Development Land Use Scenario for the White Rock Tract	14-21
Table 14.3.12.3-1	Additional Accident Consequences Associated with the Contemplated Land Uses on the White Rock Tract.....	14-29
Table 15.3-1	Summary of Cumulative Effects Within the Region of Influence.....	15-3
Table 15.3.1-1	Estimated Environmental Restoration Waste Volumes	15-9
Table 15.3.3-1	Cumulative Utility Usage Projections versus Existing Capacity.....	15-11
Table 17.2-1	DOE Regulatory Requirements for Environment, Safety, and Health	17-6
Table 17.3-1	Laws, Regulations, and Executive Orders Related to Environmental Planning and Consultation.....	17-7
Table 17.4-1	Air Resource Directives	17-8
Table 17.4-2	Water Resource Directives	17-8
Table 17.4-3	Waste Management, Toxic Substances, Pollution Prevention, and Environmental Restoration Directives	17-9
Table 17.5-1	Community Right-to-Know and Emergency Planning Directives	17-10

LIST OF TABLES